

### AMENDMENTS TO THE CLAIMS

Please amend claims 1-6. The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A flexible garment system which is capable of emitting heat when an electrical current is applied, the flexible garment system comprising an electrically insulating fiber base structure with an electrically and thermally conductive area and at least two yarn-based power supply lines, all of which are incorporated during the textile manufacture stage of the flexible garment system.
2. (Currently Amended) A The garment as described in of claim 1 wherein the electrically insulating base structure is woven, knitted or non-woven fabric made of natural, regenerated or synthetic fibres fibers.
3. (Currently Amended) A The garment as described in of claim 1 wherein the electrically and thermally conductive area may be comprises a woven, knitted or non-woven fabric made of one of the following fibres a fiber selected from the group consisting of:
  - a.) Metal fibres fibers,
  - b.) Carbon fibres fibers,
  - c.) Metallised polymer fibres fibers,
  - d.) Conductive polymer coated fibres fibers,
  - e.) Conductive polymer fibres fibers, and
  - f.) or from a combination of these materials.
4. (Currently Amended) A The garment as described in of claim 1, wherein the electrically and thermally conductive area comprises a woven, knitted or non-woven fabric made of fibres fibers selected from the group consisting of metal fibres, carbon fibres, metallized polymer fibres, conductive polymer coated fibres, conductive polymer

fibres and a combination thereof, blended with a woven, knitted or non-woven fabric made of natural, regenerated or synthetic fibres.

5. (Currently Amended) A-The garment as described in claim 1 that is powered by connection to a self-contained power supply.
6. (Currently Amended) A-The garment according to claim 1 ~~which has a further comprising an additional base structure with a thermally conductive area applied thereto thus form a more advanced garment system.~~